MIT's Oldest and Largest Newspaper

thetech.com

The Tech

Established 1881

WEATHER, p. 2

THU: 64°F | 40°F
Clear

FRI: 53°F | 35°F
Clear

SAT: 60°F | 40°F
Partly cloudy

Volume 136, Number 14

Thursday, April 28, 2016

Davis urges students to share opinions on Good Samaritan

Students send over 100 emails asking committee to afford drug and alcohol users the same protections

By Karleigh Moore
EDITOR

UA President Matthew J. Davis '16 urged undergraduates to begin a letter writing campaign to voice their opinions on MIT's Good Samaritan Policy, with respect to drug and alcohol violations.

He sent an email to councilors ahead of a Committee on Student Life meeting last Friday. The email, which he asked councilors to forward to their constituencies, included an example email a student might send to the committee.

"If you write your own email (which is encouraged), please be absolutely sure to highlight the following points (as discussed at our March Council meeting)," Davis wrote in the email.

He called for changing the policy so that it treats drugs and alcohol the same; a well-written, concise, clear, and specific policy; and a statement from a senior administrator clarifying what happens to the students involved when a medical transport occurs.

Professor Hazel Sive, Chair of the CSL, said the committee received over 100 emails about the policy and said that the topic had already been under discussion by the committee, but that the CSL is "glad to have received the emails and to understand how important the topic is to students."

Chancellor Cynthia Barnhart PhD '88 told *The Tech* that she expects the committee to submit recommendations to her sometime in May. Barnhart will discuss the recommendations with Suzy Nelson, the incoming Vice President of Student Life, "and [they] will quickly make a decision regarding those recommendations so that any necessary implementation can commence immediately."

Davis explained that his email, sent the night before CSL's meeting, was so last-minute because "it's an Institute committee so they don't release schedules. I found out about it through a student on the committee."

He encourages students to write the CSL ahead of each of the committee's two remaining meetings this semester.

"It is concerning to me [that the

Good Samaritan, Page 6

For 100
more years
of
innovation

LENNY MARTINEZ—THE TECH

A small paper medallion hangs from a pole off of the reproduction of the 1916 Bucentaur. The new Bucentaur will cross the Charles River during the MIT 2016 Procession on May 7, and will carry many more medallions like this one which was made during the Open House this past Saturday.

MIT introduces 4 new majors, 7 new minors

Freeman: each new major, minor was created in response to identified need

By Emma Bingham and Karleigh Moore
EDITORS

This semester, MIT introduced four new majors and seven new minors.

"It's [historic]. We've never had this many in one year, in one term," Dean for Undergraduate Education Dennis M. Freeman PhD '86 told The Tech in an interview.

Starting next fall, students will have the option of majoring in Management (15-1), Business Analytics (15-2), Finance (15-3), or Mathematical Economics (14-2). Students will also be able to minor in Computer Science, Design, Entrepreneurship and Innovation, Statistics and Data Science, Management, Business Analytics, and Finance.

Freeman said that each new major and minor was created in response to needs that the faculty identified. For example, he said,

Minors, Page 11

IN SHORT

SpringFest, featuring Jeremih and Kat Dahlia, is this Friday, April 29, at 8 p.m. in the Johnson Athletic Center. Purchase tickets for $15 at tickets.mit.edu.

S^3 has extended its walk-in hours by two half-hour periods. From May 2 to May 13, walk-in hours will be held daily from 10 a.m. to 11:30 a.m. and from 2 p.m. to 3:30 p.m.

A subject with a final exam may not give assignments after Friday, May 6. The last day of classes is May 12.

Send news and tips to *news@tech.mit.edu.*

The Tech officially switched online publication to a new website last week.

The website, which can be accessed at *thetech.com*, was originally announced publicly in a letter from the editor last February, in the first issue of Volume 135.

That letter simultaneously announced that *The Tech* would publish just once a week, rather than twice a week, during most of the academic year.

The Tech's old website, served by a rack-mount server in a closet off the newsroom, will no longer see updates and will remain in its current state for the foreseeable future. V136 N12 will remain the last issue archived on that site.

KARLEIGH MOORE—THE TECH

W20 is one of the closest locations Maseeh residents can go to use soap.

At last, DSL agrees to provide basic amenity

With soap at Maseeh hall, DormCon can scrub major agenda item off its to-do list

By Emma Bingham
ASSOCIATE NEWS EDITOR

All undergraduate dorms will have soap in every bathroom starting next fall. This announcement came at a recent DormCon meeting after months of negotiations with the Department of Student Life (DSL).

Outgoing DormCon President Yonadav Shavit '16 told *The Tech* that DormCon made soap a priority last December after Maseeh rejoined. MIT had not previously provided soap to Maseeh bathrooms, and residents had been barred from installing their own soap dispensers.

DormCon discussed the issue with Chancellor Barnhart PhD '88, Dean Peter Cummings, and the Housing Strategy Group (HSG). They also consulted with Dr. Howard Heller, associate director of MIT Medical.

Heller emphasized the importance of soap in preventing infectious diseases and "helped convince [the HSG] of soap's necessity as a public good."

Currently, many dorms, including East Campus, MacGregor, Senior House, McCormick, New House, and Next House, have soap provided by their house managers

Soap, Page 6

MORE THAN WORDS

We need action on climate change.

OPINION, p. 4

PREQUEL AND SEQUEL IN ONE

Winter's War straddles *Snow White.*
ARTS, p. 10

NEW MEXICO BOUND

Desert, agriculture, and connections.
CAMPUS LIFE, p. 13

STRAIGHT FIRE

Check out these hot moves. **PHOTO, p. 8**

HOW TO RUN A MARATHON

Perspectives from some of this year's finishers. **SPORTS, p. 14**

SECTIONS

Weather. 2
Opinion 4
Fun Pages 5
Arts 10
Campus Life 12
Sports 14

WEATHER

Cool spring weather to continue through weekend

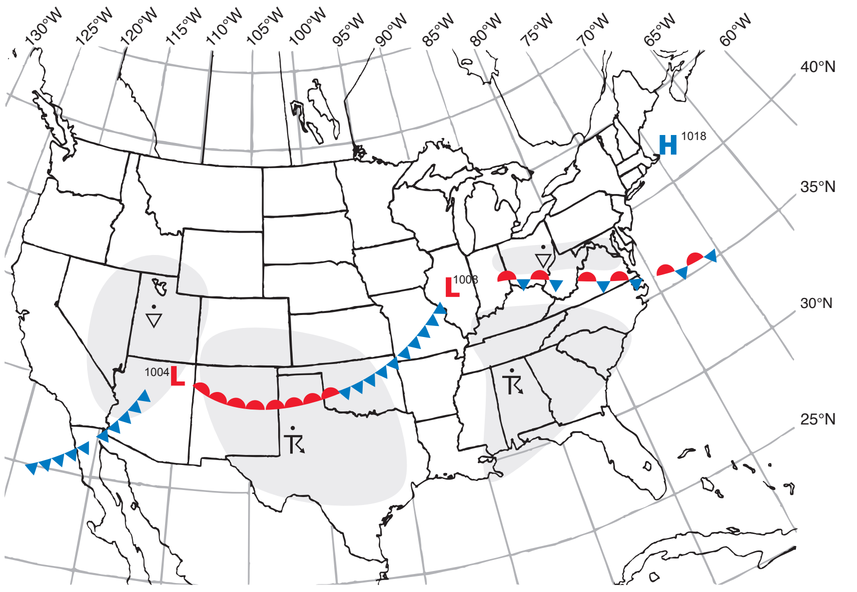
By Colin Thackray
METEOROLOGIST

Mild to cool temperatures will persist in the Boston/Cambridge area through the end of the weekend, with overnight lows in the high 30s to low 40s and daytime highs in the 50s (°F). A low pressure system will pass by on Friday, but given current indications of how it will track, it will bring only slightly cooler temperatures and a very slight chance of rain on Friday as it moves along to the south of us.

As May approaches, the season for dangerous weather in the southern parts of the country is ramping up. Earlier this week, an outbreak of severe storms brought tornadoes, hurricane-force winds, and grapefruit-sized hail to a large area spanning from Texas to Iowa, with similar outbreaks possible farther east at the end of the week. While we are relatively safe from severe weather in the northeast, people forget that tornadoes happen on average a couple of times per year in Massachusetts.

Extended Forecast

Today: High of 64°F. Winds 5 mph NW. Clear.
Tonight: Low of 40°F. Winds 5-10 mph SE. Clear.
Tomorrow: High of 53°F. Winds 5-10 mph E. Partly cloudy. Low of 35°F overnight.
Saturday: High of 60°F. Winds 5-10 mph E. Clear.
Sunday: High of 60°F. Winds 5-10 mph E. Cloudy, slight chance of rain.


130°W
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90°W
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65°W
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35°N
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H 1018
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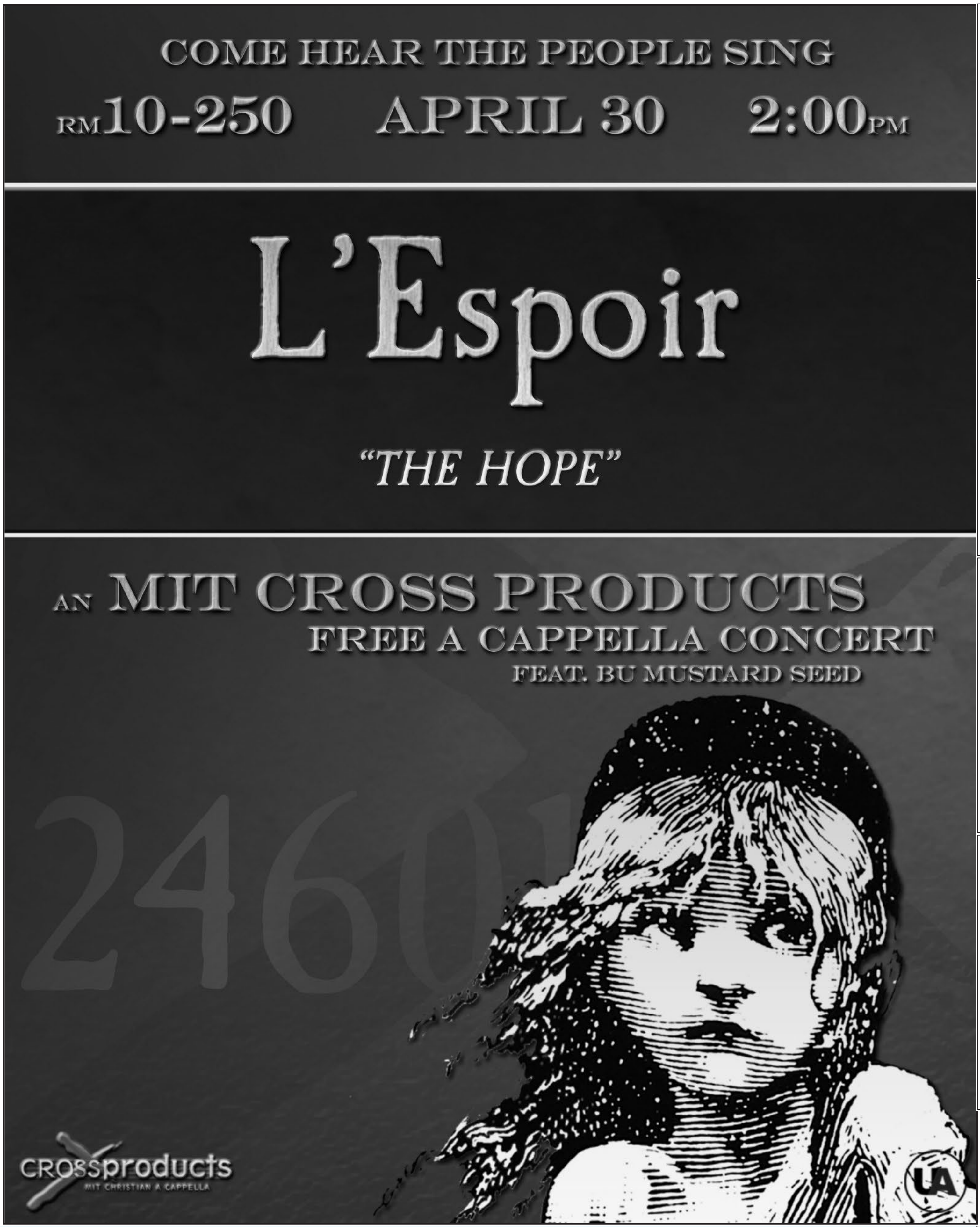
1004 L

Situation for Noon Eastern Time, Thursday, April 28, 2016

Weather Systems
H High Pressure
L Low Pressure
§ Hurricane
Weather Fronts
Trough
Warm Front
Cold Front
Stationary Front
Precipitation Symbols
Snow
Rain
Showers
Light
Moderate
Heavy
Other Symbols
Fog
Thunderstorm
Haze

Compiled by MIT Meteorology Staff and *The Tech*


COME HEAR THE PEOPLE SING
RM 10-250 APRIL 30 2:00PM

L'Espoir

"THE HOPE"

AN MIT CROSS PRODUCTS
FREE A CAPPELLA CONCERT
FEAT. BU MUSTARD SEED

2460
crossproducts
MIT CHRISTIAN A CAPPELLA
UA

DID YOUR MIT ESSAYS GET YOU IN?

The Tech is collecting successful application essays (**hint:** yours!).
Email your pieces to cl@tech.mit.edu!

Solution to Dial

from page 5

3	5	1	4	8	9	7	6	2
8	6	4	7	2	1	3	5	9
2	9	7	3	5	6	1	8	4
4	8	9	1	3	5	6	2	7
6	3	2	8	4	7	5	9	1
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9	2	8	5	1	3	4	7	6
7	4	3	2	6	8	9	1	5
5	1	6	9	7	4	2	3	8

Solution to Dove

from page 5

3	2	5	6	4	1
6	5	2	3	1	4
4	3	6	1	5	2
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5	4	1	2	6	3

Solution to Irish Spring

from page 5

8	5	6	3	1	9	2	4	7
7	1	2	8	4	5	6	3	9
3	4	9	6	2	7	5	8	1
6	8	7	4	3	1	9	5	2
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2	9	4	5	7	6	8	1	3
4	6	3	7	5	2	1	9	8
5	2	1	9	8	4	3	7	6
9	7	8	1	6	3	4	2	5

Solution to Ivory

from page 5

4	3	1	2	6	5
5	4	2	3	1	6
1	6	4	5	3	2
6	5	3	4	2	1
3	2	6	1	5	4
2	1	5	6	4	3

Solution to Stumper

from page 5

D	A	W	N	R	A	I	D	■	P	O	M	A	D	E
R	E	A	C	T	S	T	O	■	A	V	A	L	O	N
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F	E	E	S	■	E	L	I	O	T	■	G	E	R	E
T	A	R	■	B	R	I	N	K	■	M	O	R	S	E
■	S	C	A	R	■	A	O	R	T	A	■	N	I	B
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F	L	O	R	A	L	■	■	■	T	O	O	T	L	E
R	I	L	E	D	U	P	■	P	O	O	L	E	■	■
E	S	E	■	E	M	O	T	E	■	N	E	E	T	■
S	T	R	A	D	■	G	R	A	S	S	■	N	O	M
H	I	S	S	■	M	O	O	C	H	■	E	D	N	A
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A	L	O	H	A	S	■	P	A	R	D	O	N	M	E
N	E	W	I	S	H	■	S	T	R	O	N	G	E	R

Team wins 300K for new cancer diagnosis tool

The Koch Institute funded challenge to find creative ways to prevent, diagnose cancer

By Justin Chen

A team of six scientists, postdocs, and graduate students from biology and engineering labs won $300,000 for inventing a chip that sifts through a patient's blood to discover cancer far earlier than traditional tests can, in a competition hosted by the Koch Institute for Integrative Cancer Research on April 8.

The challenge, titled "Mission: Possible," was a shark-tank style competition in which six teams of scientists presented their most creative ideas to prevent and diagnose cancer. It was held to celebrate the Koch Institute's fifth anniversary in Building 76.

A microfluidic chip looks like a crop circle etched onto the surface of a glass slide and acts as a miniature laboratory.

Entries included a nanoparticle-based cancer vaccine, an ingestible pill that scours the digestive tract for cancer, and a new microscope with the power to peer through nine centimeters of tissue and observe immune cells combating tumors.

Although the challenge focused primarily on cancer, the ideas presented demonstrated how biologists and engineers could partner together, and more broadly, offered a glimpse of how future academic institutions could foster multidisciplinary collaboration.

A six-person panel of venture capitalists, entrepreneurs, and pharmaceutical directors judged the contest and awarded $300,000 to the best idea. The winning team, *IllumiRNA*, comprised four biologists and drew from the Anderson, Langer, and Sharp laboratories — Salil Garg, Courtney JnBaptiste, Anthony Chiu, and Vikash Chauhan — as well as engineers Andrew Bader and Suman Bose.

In the team's ten-minute pitch to an audience of roughly 200, Garg and Bose introduced a hypothetical patient named Jane who, although healthy in 2015, was diagnosed with late-stage leukemia a year later.

Jane's story illustrated the limitation of the Complete Blood Count (CBC) — the main test doctors use to diagnose leukemia. During the test, a sample of Jane's blood was loaded into a machine that quantified three different cell populations — white blood cells, red blood cells, and platelets. An unusually high proportion of white blood cells relative to the other two cells types is a signature of leukemia.

In 2015, when Jane appeared relatively healthy, the CBC failed to recognize rare cancer cells circulating in her blood — the cellular foreshadowing of a developing disease. Over the course of a year, the proliferation of abnormal blood cells replaced Jane's bone marrow with cancerous cells leaving her unable to fight infections, control bleeding, or transport oxygen efficiently in her blood. By the time Jane's leukemia was detected in 2016, her cancer was already so advanced that her prognosis was grim.

To save Jane and thousands of patients like her, *IllumiRNA* designed an alternative diagnostic approach. Instead of broadly dividing cells into categories, the team strived to meticulously examine each cell in Jane's blood sample for signs of cancerous activity. According to Garg, the goal was to "find, with much higher sensitivity, those people who have a very small but detectable burden of disease where the complete blood count can't."

The initial step in diagnosis was to distinguish a cancer cell from a normal cell. To accomplish this, *IllumiRNA* focused on small molecules known as microRNAs. MicroRNAs, which like DNA consist of a unique combination of nucleotides, are genetic levers that control the expression of large groups of genes. By consulting the Cancer Genome Atlas, *IllumiRNA* identified groups of microRNAs that exist only in leukemic cells and groups of microRNAs that exist only in normal cells.

Despite this knowledge, *IllumiRNA* faced a formidable challenge — the technology to analyze microRNAs on an individual cell basis did not exist.

The collaboration between members of *IllumiRNA* is representative of the Koch Institute as a whole.

The solution to that challenge, a microfluidic chip, looks like a crop circle etched onto the surface of a glass slide and acts as a miniature laboratory. Designed by engineers Bader and Bose, the chip is a roughly two centimeter by eight centimeter rectangle composed of silicon elastomer hollowed out by a series of curved and straight channels that coordinate an intricate set of reactions.

First, cells from the viscous sludge of a blood sample are sorted into individual droplets at a rate of 50 to 100 cells a second. Each droplet, containing one cell, acts as a secluded test tube where the cell is lysed to release microRNAs. As these droplets travel through the narrow channels of the microfluidic device, the microRNAs are barcoded with a unique sequence of nucleotides. This sequence allows researchers to tell which microRNAs came from which cell. Finally, the microRNA is purified from the droplet using magnets and sent for sequencing to distinguish microRNAs associated with cancerous cells from those found in normal cells.

The story of how *IllumiRNA* came together is as interesting as the microfluidic chip they designed. The initial meeting was a small group of biologists interested in single-cell microRNA profiling.

"Not only could we learn a lot about cancer," Garg said, "we could learn a lot about biology. It would be a great tool to have."

Chauhan, who knew a broad section of people in the Koch Institute and was called the "Paul Revere" of the group, introduced the team to Bader and Bose.

"It was really fun," Garg said. "The six of us started meeting as a group once we realized this was a team that could really solve this particular problem."

Although the team met weekly for three months, they were surprised about how quickly the skeleton of their idea came together. Upon gathering, the scientists realized that many of the individual pieces of the problem were already solved — Bose and Bader were experts in constructing microfluidic devices while Garg, JnBaptiste, Chiu, and Chauhan were adept in microRNA analysis.

"I remember the first time we met," Bose recalled. "Salil asked, 'can we do single-cell barcoding?' and I was like yeah, 'we can do it within droplets.' 'Can we a run a gel in the droplets?' And I said, 'you can't run a gel but you can probably use magnets to do the purification.' It kind of came together literally within two hours to figure out the problem. Most of the time with microfluidics you make a device and you ask, 'what do I use it for?' It's like having a solution without a problem. While the biologists have a lot of interesting problems and are trying to find a solution. So it's always a good idea to get them together."

Over the next year, *IllumiRNA* plans to test several prototypes of their microfluidic chip to optimize its performance.

Bose describes the partnership as a give-and-go between the team members. "The biologists might ask, 'well the protein in the cell is five nanomolar how do we address that?' And I would say, 'oh yeah I didn't think about this, why don't we increase the concentration of this reagent?' They will see how the device is performing and start giving input. Then I will change the design accordingly. This is really an iterative process going forward in terms of what we will learn from each other and how we interact to finalize the design."

The collaboration between members of *IllumiRNA* is representative of the Koch Institute as a whole: half the principal investigators are engineers and half are biologists. The Institute is arranged so that biologists are on the south end of the building and engineers are on the north end.

"It was a conscious decision," explained Chiu. "That is why we have common spaces in the middle. The idea is we'll meet each other over lunch or breaks. We also have weekly social hours on Fridays where each lab presents over pizza and beer."

The organization of the Koch Institute stands out among academic institutions. Whereas most academic universities are siloed by departments — biology, physics, math — the Koch Institute is siloed by the problem of cancer.

"That is a better way to think," Garg said. "Whoever we need from whatever discipline is under one roof to address that problem. This is a really productive way to organize research and it is a very different way than how most universities are organized."

Convergent research has become an innovative force in healthcare technology.

This multidisciplinary approach, termed convergent research, has become an innovative force in healthcare technology.

Through convergence, scientists are finding new ways to gather and analyze massive data sets, translate basic research to clinical settings, and reimagine what techniques are possible.

"When I was sitting down thinking about how can we do single cell microRNA sequencing, it never would have occurred to me that what I would need to solve that problem was microfluidics and mechanical engineering," Garg said. "I would have never gotten there unless we were in the same room thinking about this together."

MIT RESONANCE
CO-ED A CAPPELLA THAT ROCKS
PRESODENTIAL
ELECTIONS
SATURDAY APRIL 30TH
2016
MAKE
THEIR
VOICES
HEARD
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Established 1881

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GUEST COLUMN

MIT and the climate challenge

We need more than plans for technical solutions

Editor's note: This letter also appears in the March/April issue of the MIT Faculty Newsletter.

In September 2014, MIT established the Committee on the MIT Climate Change Conversation, with the mandate to "seek broad input from the Institute community on how the U.S. and the world can most effectively address global climate change." During the ensuing academic year, the committee sponsored a number of educational events and a campus-wide debate on fossil fuel divestment, and surveyed the MIT community on a broad range of climate issues. In June 2015, it submitted an extensive report containing recommendations based on input from the MIT community. In October 2015, the Institute responded to that report by issuing "A Plan for Action on Climate Change" that outlines a number of concrete steps to address climate change.

We praise the Institute's explicit and forceful assertion in that document of the seriousness of the risks and challenges of climate change. MIT's acknowledgement was followed two months later by the explicit recognition of the urgency of climate change issued unanimously by world leaders at the United Nations climate change negotiations (UNFCCC COP21 meeting) in Paris in December 2015. As with the Paris agreement, it is imperative that plans be followed by action. Thus we advocate that MIT's plan for action be rapidly followed by an aggressive implementation plan that establishes clear management responsibilities and organizational frameworks, so that the steps identified in "A Plan for Action on Climate Change" can be realized, and that goals be made continuously more ambitious to align with the seriousness of the problem.

As with the Paris accord, it is paramount that our money and energy be put where our mouth is. In this respect, we found the Institute's funding commitment of $5 million for the Environmental Solutions Initiative (ESI) to be grossly inadequate for the scale and multidisciplinary scope of the climate challenge. While the Institute's plan addresses the technical dimension — in the form of eight new low-carbon energy centers that will reaffirm MIT's leadership in developing technologies to advance carbon-free energy — the economic, policy, and societal dimensions are largely unaddressed. Focusing on engineering a solution belies an integral component: without societal recognition of the risks and challenges of climate change, many low-carbon technologies may never be implemented — they will stand little chance as long as fossil fuels remain the cheapest option and without government-mandated incentives to change.

If the Institute were to allocate significant resources toward bolstering such a multi-faceted approach, it could exercise intellectual leadership toward engendering strong societal support for a transition to new sources of energy. In tandem with a focus on technology, advancing the policy steps, the societal dimension, and the understanding of the science of those problems at the same time, MIT can build on existing entities such as the Joint Program on the Science and Policy of Global Change. "Manus" alone cannot succeed without "mens." In this regard, endeavoring to administer an internal carbon tax could harness the broad potential for education and participation as the Institute tackles the changes necessary to mitigate and adapt to the impacts of climate change.

Universities are at their best when they undertake unfettered search for truth. Such a pursuit is weakened and tarnished when it is associated with organizations and individuals that support campaigns of deception for financial gain; these are clearly distinguished from mere differences of opinion, which are an essential element in the quest for knowledge. In recommending the establishment of an Ethics Advisory Council, we sought to emphasize that investment ethics — particularly on assets that can negatively impact climate change — should derive from an open process that incorporates the sentiments and values of the larger MIT community. Many of our peers, including Harvard, Princeton, Yale, Columbia, and Stanford, already have such entities to ensure that critical decisions involving institutional investments are made in ways that respect the university's greater commitment to scientific truth. We are not suggesting that MIT's current system ignores the ethics of investing, but rather that decisions around some issues — climate change among them — are too big and too important to leave to a select few to make. We advocate for a reconsideration of the decision not to establish an Ethics Advisory Council. We agree wholeheartedly on the importance of constructively working with industry on solutions to climate change, but also emphasize that there are higher standards to which MIT must be held, particularly in the face of such large-scale societal challenges as climate change.

With its "Plan for Action on Climate Change," MIT recognized the gravity of the challenge ahead. As the Paris accord is for the world, a plan for action is for MIT an essential early step. Following up now with concrete action, and ramping up commitments as opposed to letting them dwindle, will be a momentous task, and one that we urge the Institute to accomplish.

—Kerry Emanuel, Cecil and Ida Green Professor of Atmospheric Science, Department of Earth, Atmospheric and Planetary Sciences;

—Bernadette Johnson, Chief Technology Officer, Lincoln Laboratory;

—Jacqueline Kuo, Undergraduate Student, Department of Mechanical Engineering;

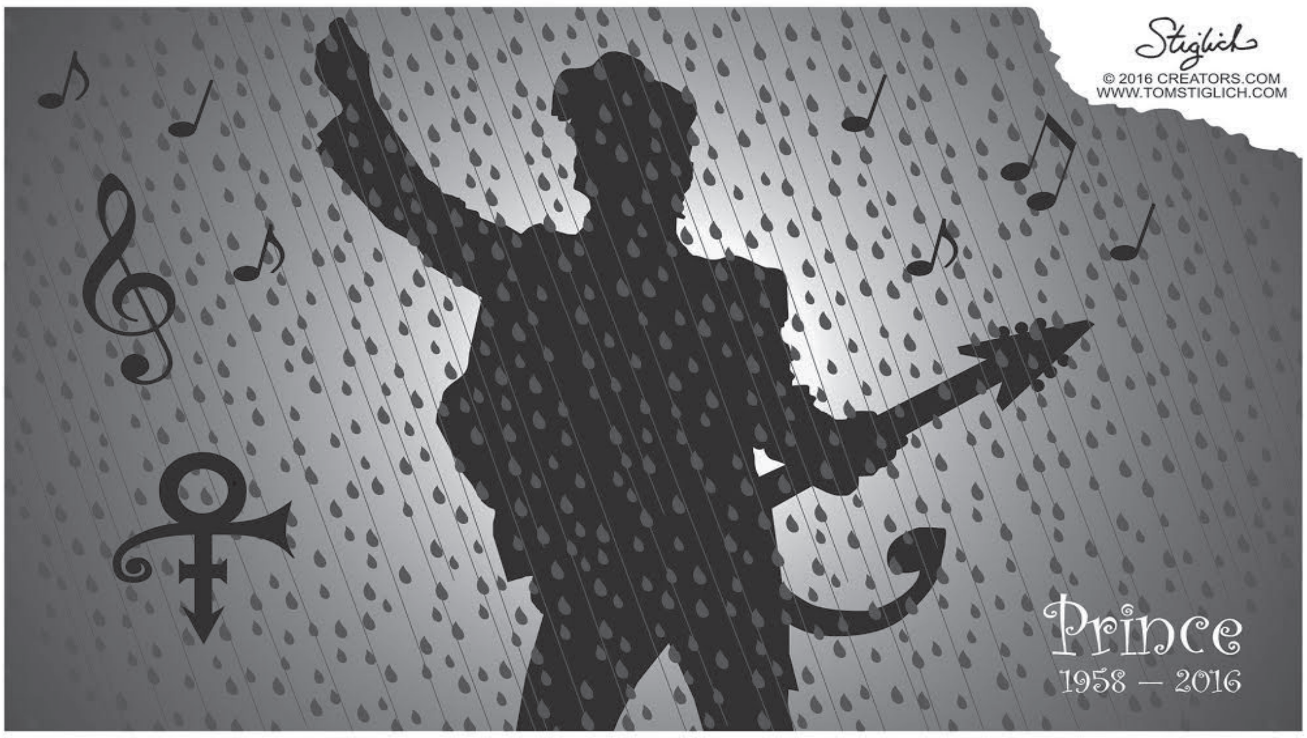
—Christoph Reinhart, Associate Professor in Building Technology, Department of Architecture;

—Anne Slinn, Executive Director, Center for Global Change Science;

—Roman Stocker, Associate Professor, Department of Civil and Environmental Engineering;

—Geoffrey Supran, PhD candidate, Department of Material Science and Engineering.

The above signatories were members of MIT'S Climate Change Conversation Committee.



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Dial

Solution, page 2

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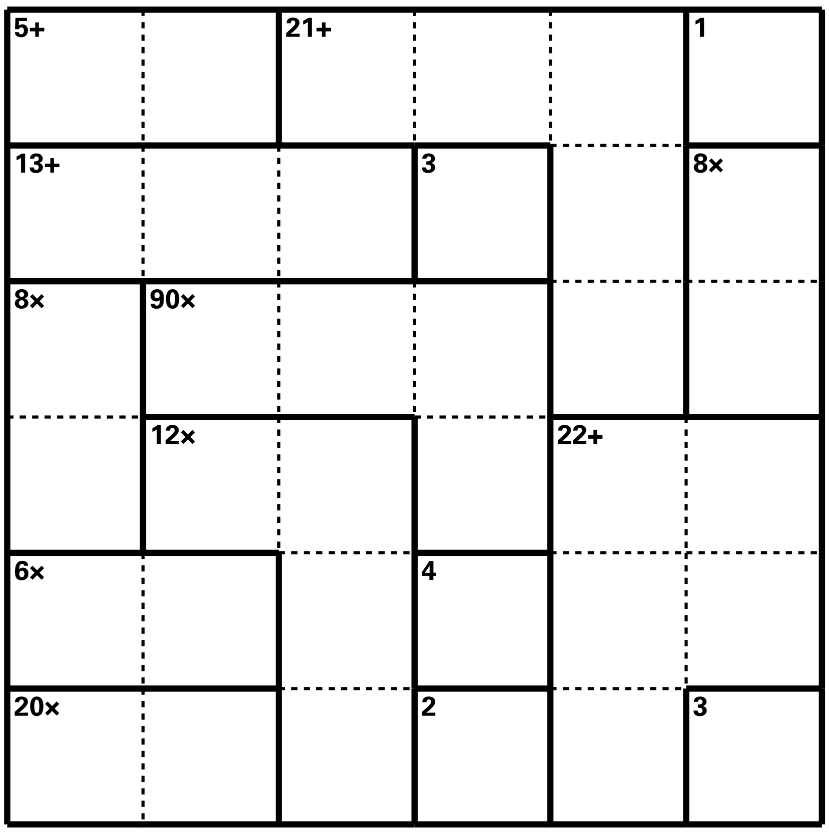
Dove

Solution, page 2



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Irish Spring

Solution, page 2

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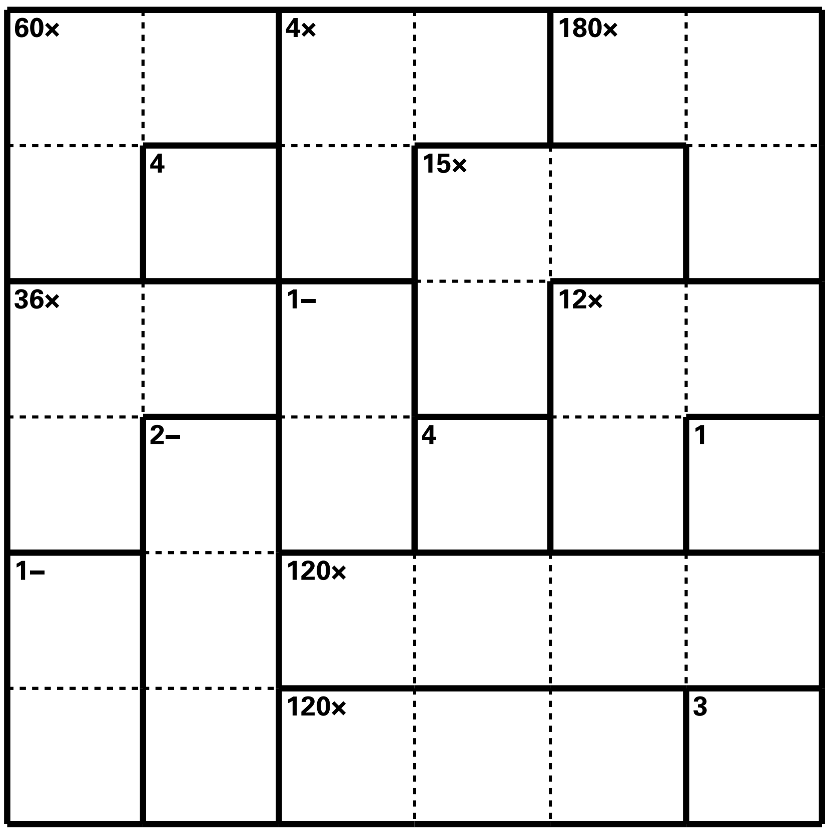
Ivory

Solution, page 2



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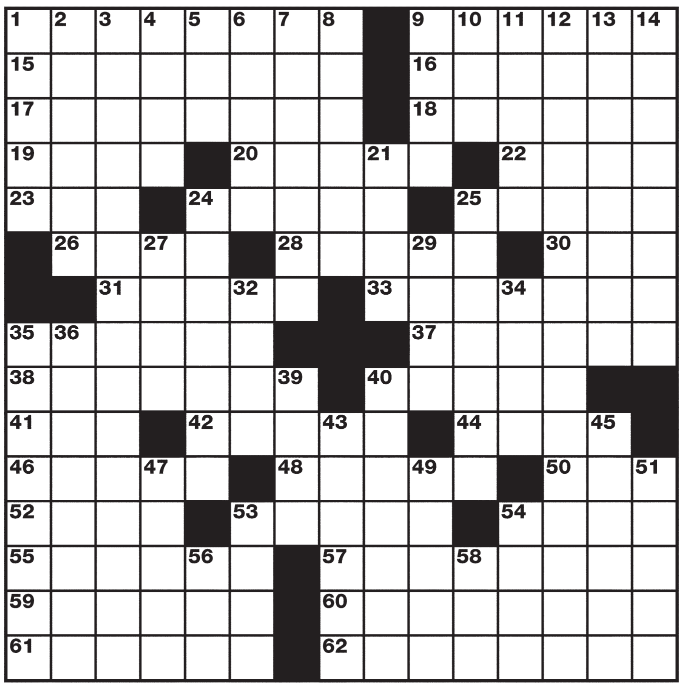
Saturday Stumper by Brad Wilber

Solution, page 2



ACROSS

1 Maneuver investigated by antitrust lawyers
9 Popinjay's purchase
15 Betrays the effect of
16 Where Excalibur was forged
17 Emancipation Proclamation catalyst
18 To a degree
19 They're often seen on a schedule
20 "Not with a bang, but a whimper" source
22 Swank's spouse in Amelia
23 Dishonor
24 Threshold
25 Subject of the bio The American Leonardo
26 Deface
28 Vital outlet
30 Tip for writers
31 Key location
33 Court miss
35 Wallpaper descriptor
37 Use a recorder
38 Hot
40 Dorset port birthplace of le Carré
41 Bilbao-to-Pamplona dir.
42 Spurn subtlety, in a way
44 Cream pitched by John Stamos in the '80s
46 Strings often given a noble name
48 Rough stuff
50 Désignation
52 Leakage evidence
53 Freeloader
54 "Welcome to the 60's" singer in Hairspray
55 Basketball Hall of Famer who backed up Bird
57 Halves
59 Exchange at some pig roasts
60 "Come again?"
61 Pretty recent
62 Not so easy

DOWN

1 Frequent ESPN topic
2 Ancestor of Romulus and Remus
3 Much-talked-about TV
4 Scripted drama second only to SVU in current longevity
5 USPS designation
6 Sunflower cousin
7 Descent of about 5% of Americans
8 Pizza-box symbol
9 Elapsed
10 Vegetarian qualifier
11 Eldest Despicable Me sister
12 DVD bonus feature, perhaps
13 Threshold
14 Sap
21 Bayou side
24 How Wiener Schnitzel is served
25 They're close to clarets
27 Parcel division
29 Name on the cover of Mambo Birdland
32 Sulfate in styptic pencils
34 Main part of a tree
35 Just-arrived
36 Brief enumeration
39 Jump-on-tail skateboarding trick
40 Old Navy favorite, fittingly
43 Routs
45 Sound pattern in some languages
47 Brewery that owns Schweppes Australia
49 Gather for stitching
51 Atomic clock timekeeper
53 Material for the screen
54 Captain Hook went there
56 __ Ilusiones (Rivera painting)
58 Stronghold of eastern feudalism

Administrators differ on policy's interpretation

Student reports receiving mixed messages from different MIT offices, causing confusion

Good Samaritan, from Page 1

committee has] solicited feedback from specific administrators and staff members, but never actively reached out to student leadership until the letter writing campaign," he said.

"The way that we found out [that CSL was considering the Good Samaritan Policy] is because we get tipped off by other students and then have the foreknowledge to ask that question to the chancellor. And that's probably a little inappropriate," he said.

MIT's Good Samaritan Policy states that "in a situation where a student seeks attention for an alcohol-related medical emergency, MIT will treat the situation as a health and safety matter, not as a disciplinary incident."

The policy also stipulates that if a student is the victim of a crime while under the influence of alcohol, that victim will not face disciplinary actions for alcohol use related to the incident.

"Students that receive medical attention through this practice will be required to complete educational and/or counseling program(s) that are meant to support the student and connect them with other community services and resources that may be beneficial."

But Davis and other students claim that the policy is confusing and unsatisfactory.

"As currently written, the Good Samaritan Policy does not achieve its objective of promoting a safe and healthy campus; instead, it is confusing, is written in a manner that causes students to make poor choices for the health of their friends and community, and does not create a positive campus climate where we can adequately address problems of drugs and alcohol," Davis's example email reads in part.

"We are in complete agreement with the recommendations made by Matt in his email to the undergraduates," Sean Corcoran '16, an outgoing DormCon risk management chair speaking on behalf of himself and his co-chair, said in an email to *The Tech*.

> **Professor Hazel Sive said the committee received over 100 emails about the policy.**

"The Good Samaritan Policy should treat alcohol and other drugs equally. Drug and alcohol incidents on campus should be dealt with as a health and safety issue first and foremost. It would be irresponsible and [would invite] emergencies to have our Good Samaritan Policy stay as-is, with other drugs handled differently from incidents involving alcohol."

Corcoran said that the risk management chairs have a meeting in the coming week with the Office of Community Development and Substance Abuse, at which they will talk about the issues and policies surrounding substances other than alcohol.

When asked if he thought that the committee would have problems with any particular recommendations, Davis said "they shouldn't."

"They're all common-sense recommendations that have been implemented at other schools … and they are things that make sense, that are supported by data. So as long as the committee does its job properly and analyzes things as a matter of fact and what is best for the health and wellness of our community, then by all means they should implement those recommendations," he said.

According to the Mind and Hand Book, students are required to seek emergency services when they have reason to believe that the "well-being and safety [of a person under the influence of drugs or alcohol is] in jeopardy."

Failure to summon emergency services in such circumstances is considered a serious violation of the policy and students found guilty of not complying can face disciplinary suspension and disciplinary expulsion.

While the policy is fairly clear that MIT aims to give students certain protections in medical matters involving alcohol, the same protections do not extend to incidents involving drugs, though students are still required to seek emergency help for friends needing assistance due to drug use.

Furthermore, the policy states that students who are "spotting" or trip sitting for other students who are using drugs are in violation of MIT's drug and alcohol policies and will face sanctions.

> **"The Good Samaritan Policy should treat alcohol and other drugs equally. Drug and alcohol incidents on campus should be dealt with as a health and safety issue first and foremost."**

Kevin Kraft, who is the Director of Student Citizenship and staffs the Committee on Discipline, and Don Camelio, who is the Director of the Office of Community Development and Substance Abuse, "have two very different interpretations of the Good Samaritan Policy and what its meaning is, and how it should be treated," Davis said.

Correspondence with Camelio's office, a student told *The Tech,* was "very in line with what I thought was the spirit of the Good Samaritan Policy "to treat incidents as health-related first."

The student later received a generic email from the COD, which they thought was "very different, like 'oh you might have broken Institute policy, your registration might be put on hold' and lots of scary things," the student said.

"The disparity between those two views causes a lot of confusion among students," Davis said. "The lack of clarity on how a medical transport is treated, or how someone uses the Good Samaritan Policy, and what happens to them and the person they call in for, definitely causes students not to utilize the Good Samaritan Policy."

Davis said that "one of the number one reasons … that that confusion arises is because when you pull [Kraft] into a room to address a group of students, he says one thing, and when you pull [Camelio] into a room, he says a different thing. What is the reality of the situation? People's experiences are different."

"I would encourage students to keep writing on both [upcoming meeting] dates," Davis said.

"They modified [their original mailing list] after they received all the emails, but the reasoning is unclear."

He said that undergraduates can now reach the committee, which will meet May 6 and May 13, at cslsp16@mit.edu.

The Tech will be speaking with Dean Judy Robinson, Don Camelio, and Kevin Kraft later this week.

DSL throws in the towel, buys soap for dormitories

MIT Medical helped convince admins that soap in dorms is important for public health

Soap, from Page 1

and maintained by the facilities staff.

The dorms that don't have soap provided by facilities are Maseeh, Baker, Burton-Conner, Simmons, and Random. At Baker, bathrooms don't often have soap, but sometimes GRTs will buy it for their floor's bathroom. At Simmons, bathrooms are shared by at most three residents; residents clean their own bathrooms, and others are generally not encouraged to use them. At Random, the house government buys soap for the residents.

The soap issue is important to Maseeh residents, who have been fighting for soap to be placed in their bathrooms for a long time. Maseeh President William Moses '17 said seven candidates mentioned soap in their platforms during the last election cycle; five of those candidates won positions in Maseeh government.

According to Moses, former Dean of Student Life Henry J. Humphreys told past Maseeh executive councils that the dorm's bathrooms were considered private, and MIT's policies state that soap cannot be provided in private bathrooms, despite that DSL's own website says Maseeh has "shared bathrooms on all floors."

Residents were not even allowed to pay for and maintain their own soap dispensers in the bathrooms. Several years ago, residents tried to install their own dispensers and the dispensers were removed.

The soap arriving in the fall will most likely be in liquid form.

"We can negotiate with DSL over the scent," Shavit said as laughter bubbled up from DormCon meeting attendees.

The Division of Student Life had no further information to share with *The Tech*, stating that implementation details still need to be finalized and that they will be working with DormCon on this in the coming weeks.

Other types of amenities in dorm bathrooms, such as paper towels, have been contentious as well in recent years. Just last spring, Next House was considering installing paper towel dispensers in its bathrooms, but a student group called NextSustain argued against it for environmental reasons.

Ultimately, by executive decision from the then-house managers, dispensers were installed in every bathroom, despite the fact that students had "negotiated a compromise wherein paper towel dispensers would only be installed in the kitchenettes on the residential floors," resident Zoe R. Sheinkopf '17 told *The Tech*.

East Campus resident Max Baas-Thomas '16 recalled that when he was a freshman, the then-seniors organized trips to gather paper towels from unlocked cleaning closets in various basements around campus.

East Campus resident Yanisa Techagumthorn '18 mentioned that it is easier to get paper towels these days: "just go down to the basement and knock on the door [to the cleaning staff's lounge] and ask for some."

"I usually just take a stack of napkins from Maseeh dining. Also rolls of toilet paper too," East Campus resident Ali Finkelstein '16 wrote in an email, offering an alternative method.

Karleigh Moore contributed reporting.

DormCon elections were held on Thursday, April 21. Kate Farris '17 of Simmons Hall was elected president. Yuge Ji '17, also of Simmons Hall, was elected vice-president.

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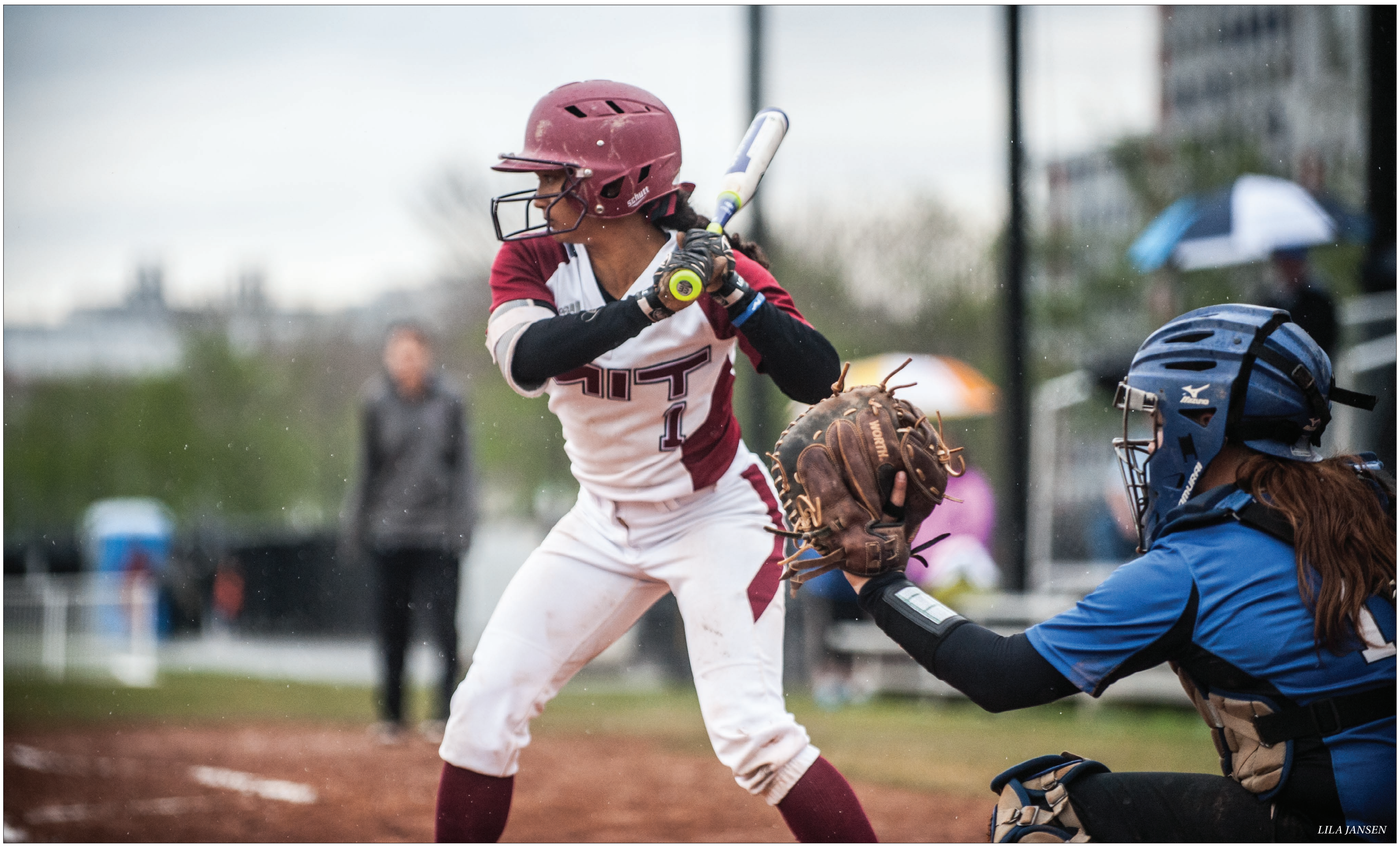
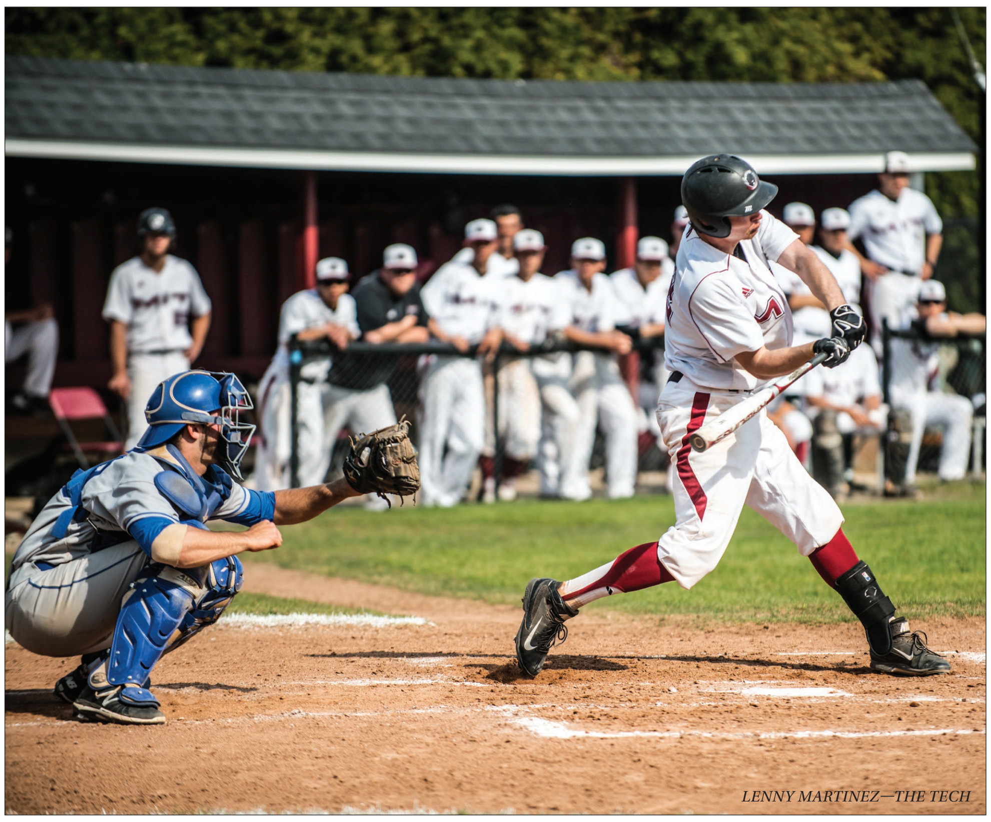


LILA JANSEN

A WEEK IN SPORTS



LENNY MARTINEZ—THE TECH

ALEXANDER C. BOST—THE TECH

THEATER REVIEW

The Wild Party

The Musical Theater Guild presents Andrew Lippa's off-Broadway gem

By Carolyn Fu

STAFF WRITER

The Musical Theater Guild's production of Andrew Lippa's *The Wild Party* began quite thematically, with an unforeseen fire drill at the Kresge Little Theater. While it only delayed the production a little, it did serve to preface the main message of the production — that a bright and flashy appearance can obscure a great underlying emptiness.

The Wild Party tells the story of socialites Queenie and Burrs, who tire of each other and hold a party to reinvigorate their self-esteems. With the arrival of their friend Kate and her new beau Black, a convoluted love-rhombus ensues where they each try to feed their egos with a mix of newfound attention and their partner's jealousy. As the rivalry escalates, their pretenses unravel to expose nothing more than four broken individuals, with a desperate need to be loved.

It is a complex production, but one that was directed remarkably well by co-directors Chamille Lescott '16 and Kirsten Olson '14. The piece is relatively fast-paced throughout, with one dramatic turn following another and songs flowing almost like a stream of consciousness. Yet Lescott and Olson succeed in guiding the action around the stage so as to always draw attention to the right places.

A commendable set of leads take the piece through its twists and turns — Elisa Boles '18 brings great texture and control to Queenie's many challenging numbers, while David Favela '18 commits himself fully to Burrs' steadily boiling rage. Amma Okwara '16 portrays Kate with a reckless abandon, while Geoff Hegg '16 is a tender-hearted Black.

Anchoring the piece is Karen Hart '14's striking set — the floors and walls are painstakingly hand-painted in a fitting array of cracks that reveal bursts of color. Likewise, Paul Gallagher G's orchestration gives the piece a strong musical foundation, infusing the complex score with an emotional depth.

However, the highlight of the evening was far and away Caroline Walsh '17's rendition of *Old-Fashioned Love Story*. Walsh is winningly charismatic, with wonderful comedic timing. But mostly, as the out and proud Madeline in search of her fairytale "lesbian love story," she is a lighthouse of authenticity in a sea of self-denial — reveling in a level of contentment and self-satisfaction that none of the other characters will ever hope to find.

The Wild Party

Performed by the MIT Musical Theater Guild

Kresge Little Theater

Runs April 22-30

MOVIE REVIEW

An unnecessary addition to the *Snow White and the Huntsman* franchise

The Huntsman: Winter's War is star-studded but scattered

By Tara Lee

ARTS EDITOR

Maybe you remember *Snow White and the Huntsman* from the tales of Kristen Stewart having an affair with the film's director, Rupert Sanders. Or maybe you remember it as the live-action interpretation of the Snow White fairy tale. Or maybe you never saw it, in which case, that's fine — you can just watch *The Huntsman: Winter's War*, which manages to be both a prequel *and* a sequel, and then you can fill in the gaps to figure out what happened in the original movie.

But that probably wouldn't work either, since Snow White does not even appear in *The Huntsman: Winter's War*. It also wouldn't work because the film is an incredibly scattered, confusing attempt at a fairy tale movie. Charlize Theron reprises her role as Snow White's evil stepmother, Queen Ravenna, and Emily Blunt stars as Ravenna's younger sister Freya, who turns into a cold-hearted ice queen after finding out that her lover murdered her baby. Think Elsa, but without the random bursts of singing. Freya forms her own kingdom, and gathers an army of children to "save" them from the ultimate sin: love.

Fast forward seven years, and the movie has suddenly turned into a sequel. Two of the army's elite huntsmen, Eric (Chris Hemsworth) and Sara (Jessica Chastain), have fallen in love with each other, and they have escaped Freya's icy powers to embark on a journey to find Snow White's lost mirror.

At this point, the plot turns into an avalanche of random fantastical events. We find out that the mirror has the equivalent effect of Medusa's head (except people are turned into murderers instead of stone), goblins somehow become involved, and we even see Freya riding around on a polar bear.

The dwarves, played by Rob Brydon and Nick Frost, provided some much-appreciated comic relief, but much of the humor was on the cruder side of what you would normally imagine for a fairy tale movie. It was strange to watch the film mix coarse humor into a sappy romantic plot, and to have violent fight scenes peppered between scenes of the sister queens discussing their powers (those felt like drawn-out staring contests in comparison).

While the plot certainly has its issues, the set design and costuming manage to shine throughout. The luscious green fields of the Scottish lands starkly contrast the frigid ice palace of Freya's kingdom. Ravenna's black and gold dress shimmers and flows as beautifully as Charlize Theron's silky voice, while Emily Blunt's Freya transforms into a live-action version of Elsa with white hair, a stunningly icy dress, and a frozen sense of emotion.

Overall, *The Huntsman: Winter's War* is entertaining at best. The actors and actresses have fine performances, and the humor is snarky enough to elicit a few laughs. But the plot jumps around from place to place and time to time, leaving holes as huge as the clichés they managed to squeeze into this two hour film.

★★☆☆☆

The Huntsman: Winter's War

Directed by Cedric Nicolas-Troyan

Starring Chris Hemsworth, Charlize Theron, Emily Blunt

Rated PG-13

Now Playing

COURTESY OF UNIVERSAL PICTURES

Freya (Emily Blunt) and Queen Ravenna (Charlize Theron) star in *The Huntsman: Winter's War*.

‘Head of house’ to replace ‘housemaster’ title

The “housemaster” title was changed to “head of house” yesterday after several housemasters requested a new title in January.

Chancellor Cynthia Barnhart PhD ’88 said that the now-heads of house felt that the term was “gendered, carrie[d] negative historical connotations, and ha[d] created confusion and feelings of offense outside our community.”

“Head of house” was chosen over popular alternatives such as “house dean,” “house maven,” and “Dumbledore,” striking a balance between professionalism and *Harry Potter* nostalgia.

Students cited gender-neutrality as a pro, and believed that “head of house” was more inclusive of non-faculty spouses and partners than “Housemaster,” Barnhart said in an email to undergraduate and graduate housemasters.

Barnhart asked an ad-hoc group of faculty and staff to recommend action on the new title, and they agreed that “head of house” does not carry the “gendered and colonial baggage” that “housemaster” does.

They also said that “this change is consistent with our ongoing self-review and efforts to use language that reflects the MIT of today, not yesterday,” while simultaneously celebrating the new title’s “rich heritage in the English education system.”

Barnhart believes that “it will take time for ‘Head of House’ to become part of our daily lexicon,” but wants the community to use it and its informal variations (such as “Head of Ashdown House”) as much as possible.

She said that updates to websites and paperwork would begin during the remainder of the semester.

The Tech will continue to recognize both terms and will use the new term to the extent it is adopted in the community.

—Sanjana Srivastava

Minors have value as credential, Dean Freeman explains

Small majors aren’t retired unless there’s no sign of future enrollment

Minors, from Page 1

many students are interested in entrepreneurship, and faculty thought there were concrete things these students should know.

If a minor isn’t available, students often take a sampling of classes in a field of interest. Such sampling is “perfectly okay,” Freeman said, but “the value of a minor is a credential.”

“A group of faculty got together and said, ‘if you want to demonstrate competence in computer science, what should you do?’ Well, you should have a programming course, an algorithms course,” he said.

Freeman identified GEL as an already-existing optional program that students could enter to learn about entrepreneurship. “We need something,” he said, and “students are probably ill-advised to do something that they get zero credit for.”

The computer science minor, for example, was created in response to the large fraction of the student body enrolled in Course 6. As Freeman explained it, when one third of undergraduates are in EECS, “there’s something funny going on.”

Freeman said there is a difference between learning about computer science “because you want to apply it someplace” and learning about it because “you want to improve computer science.”

“If you’re interested in advancing computers or making networks do more things.,” he said, the major could be an appropriate choice. But for students who want to learn programming skills or algorithmic thinking — which he noted are “increasingly important everywhere” — and apply them to other fields, a minor could be better fit.

Several factors, such as resources and outside regulations, constrain the creation of majors and minors.

Departments need to have department heads, administration, and undergraduate and graduate offices. There has to be “some kind of a minimum number [of students] that makes it reasonable to have all that structure,” Freeman said.

“We don’t want to limit what the students can do, but we don’t want to have an overly bureaucratic place where every professor is the head of a department. We’d have a thousand departments,” he said.

It was for this reason that folding the ocean engineering degree into Course 2 made more sense than having it continue as an independent major, Freeman said.

It is also difficult to create majors when the faculty who would contribute to those majors are spread across multiple departments. For example, many departments house robotics faculty. These departments “wouldn’t necessarily be all that happy” with the creation of a robotics department because it would take away some of their faculty and resources, Freeman said.

There is also the additional problem of meeting requirements for accreditation by organizations like the Accreditation Board for Engineering and Technology. Some students want to be able to say, for example, that their mechanical engineering program in college was accredited. “It’s sort of a trade-off — trying to provide credentials that satisfy a lot of different students’ needs.”

Freeman himself minored in religious studies in college. He said he was fascinated by world religions and there was value in getting the broad view that the minor gave him.

He emphasized the importance of exploration and of “being able to take whatever [classes] you want.” But at the same time, he said, faculty have identified skills that students need to know to demonstrate competence in the area of study. “Hopefully the designers put some thought into it and there is a reason for those [required] courses that you weren’t as interested in,” he said.

Freeman said that they were not planning on retiring any existing programs.

“Enrollments go through cycles,” he said. “You don’t want to retire a major simply because it doesn’t have students.”

Rather, he said, they consider whether small majors are expected to recover: “What we usually try to do is we say, ‘Is there a future?’”

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PORTRAITS OF RESILIENCE

Sathya Silva

COURTESY OF DANIEL JACKSON

Editor's Note: Portraits of Resilience is a photography and interview series by Prof. Daniel Jackson. Each installment consists of a portrait and a story, told in the subject' s own words, of how they found resilience and meaning in their life.

In my youth, I was happy and outgoing. As an undergrad, I found my place in the world — as a pilot. I moved to Houston to work in mission control and worked part-time at a flight school. I loved being a flight instructor, but I did have to put up with a lot of demeaning comments. One day, they wouldn't give me a dipstick to check my fuel level with, and they were like, "Just go."

My time in Houston came with an emotionally abusive relationship too. We broke up, but that's when the stalking started — continually e-mailing and texting and calling my voicemail. (It's been seven years, and it's still going on.) Anyway, the environment in Houston became very toxic for me, and eventually the negativity broke me down.

When I came to MIT six years ago, the change in my personality came with me. At the time, I just thought that it was part of growing up to mellow out and not really get excited about anything. I didn't make much of an effort to make friends and I hated small talk. I got stuck in this catch-22. Also, everyone around me was getting married, and I felt like my time was running out. I got back together with one of my ex-boyfriends, and we got serious enough that we were considering marriage. At some point, I realized that I shouldn't have to convince him to marry me, and that I was worth more than that.

Three years into graduate school, things came crashing down. I had lost all this confidence and drive and everything that makes me who I am. I had become a zombie that only saw the worst in people. Looking back, I can't blame my friends for not wanting to hang out with me. I wouldn't have wanted to hang out with me either! Anyway, I realized I needed a change.

I applied to be a Graduate Resident Tutor at Maseeh Hall. The first interview was this social, and I was really nervous about it. But I went, and everyone there was amazing, and I just felt at home. That community was exactly what I needed. It was full of positivity, and there was so much loyalty and respect and camaraderie. In my position there, I learned not only how to support others, but also how to support myself.

That summer, I went to California for an internship. The change in environment forced me out of my comfort zone and brought back my undergrad self, having to make friends and go out. It was so liberating. One girl, after knowing me for just three days, invited me to go Las Vegas the next weekend. I thought it was crazy, but I said yes, and that trip totally changed my life. She's now one of my best friends.

Coming back from California, I felt so great and confident in myself. There was a faculty position that was open at Stanford, and I said to myself, "You know what? I can do this."

And that's when things started to go back downhill. I went to talk to my supervisor about it, and the first thing he said was, "Well, you don't want to blacklist yourself." Things had been fine with my supervisor for the first few years, but it turned out the new me was totally incompatible with him. I tried to understand where he was coming from, but he used the term "blacklist" multiple times when it came to my future goals. I'd like to think I wasn't a bad student. Why would he continue to have me lead so many projects if I was? But I was getting this type of discouraging feedback while others in the lab were being encouraged to publish, attend conferences, and so on.

I had no idea how to process this difference in treatment. I kept thinking: how could he be so supportive to some students and so demoralizing to others? Was it me? Incompatible personalities? Gender? To this day, I still don't know. I don't think he realizes how much influence his words have. I know I shouldn't take what he says personally, but it wears you down.

The downward trend in my state of mind was exacerbated by another blow later in the semester. I had reconnected with a close friend from college. I remember feeling so warm, and thinking: I've finally got my friend back. Two weeks later, he committed suicide. He had texted me the week before and said he was feeling bad, but I had no idea how bad it was.

When I returned from my friend's funeral the following week, my advisor said, "I know you've been distracted lately but you really need to buckle down and make some progress." I think it was his way of motivating me, but it had the opposite effect. My grief got tied up in this relationship with my advisor, so any time I thought about work, I would think about my friend's death, and vice versa. That's when I started to notice the anxiety: waking up without being able to breathe, constant shaking. Meeting with my advisor, or even an email from him, would set my whole body off in hives.

Eventually things got bad enough that I realized I needed help. I talked to the ombuds. I talked to the dean. I talked to our department head, and somewhere in there was mental health. After months of people telling me to take care of myself, I prepared to potentially lose five years of work and switch advisors. The deans had coached me on how to go about it.

My advisor's response was, "Oh, you don't need to go. I promise it'll be better."

It was a bizarre feeling for me because I felt better, but it also made me realize why people stay in abusive relationships. What had I gotten myself into?

That summer was full of pain, but also so much support. I started going to suicide survivor support groups and seeing a therapist. The housemasters let me borrow their dog who quickly became my best friend. Mickey got me out of bed every day because I knew he was counting on me to go running.

My friends stuck by me, and slowly things started to improve. By the end of the summer, I felt strong enough to be able to separate my work from my grief. I got offered a great job so I resolved to finish up my degree as fast as I could and get on with my life.

I was able to defend my thesis and am now on my way out. My advisor and I slowly repaired our relationship as I healed and as he became more of my advocate. My friends were there every single step of the way, and the Maseeh community was my rock. A lot of them came to my defense — the students, the GRTs, the housemasters. When I came back and opened my door, my whole apartment was covered in balloons and inflatable airplanes.

I'd say I'm in a very positive place now and I appreciate being surrounded by wonderful people. I was inspired to do something good with my grief, so I ran the Boston Marathon this year on behalf of the Samaritans, a non-profit that specializes in suicide prevention. It was ridiculously hard, but I pushed through. I feel like I've come so far, and I've finally found myself again.

Sathya Silva is a graduate student in the Department of Aeronautics and Astronautics.

This project is supported by the Undergraduate Association's Committee on Student Support and Wellness, chaired by Tamar Weseley '17 and Alice Zielinski '16. To participate in the project, or to learn more, contact ResilienceProject@mit.edu.

There are many ways to find help. Members of the MIT community can access support resources at mindhandheart.mit.edu. To access support through MIT Medical's Mental Health & Counseling Service, please call (617) 253-2916 or visit medical.mit.edu.

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Seeking the culture in agriculture

Investigating food security in the New Mexican heartlands

By Vivian Zhong

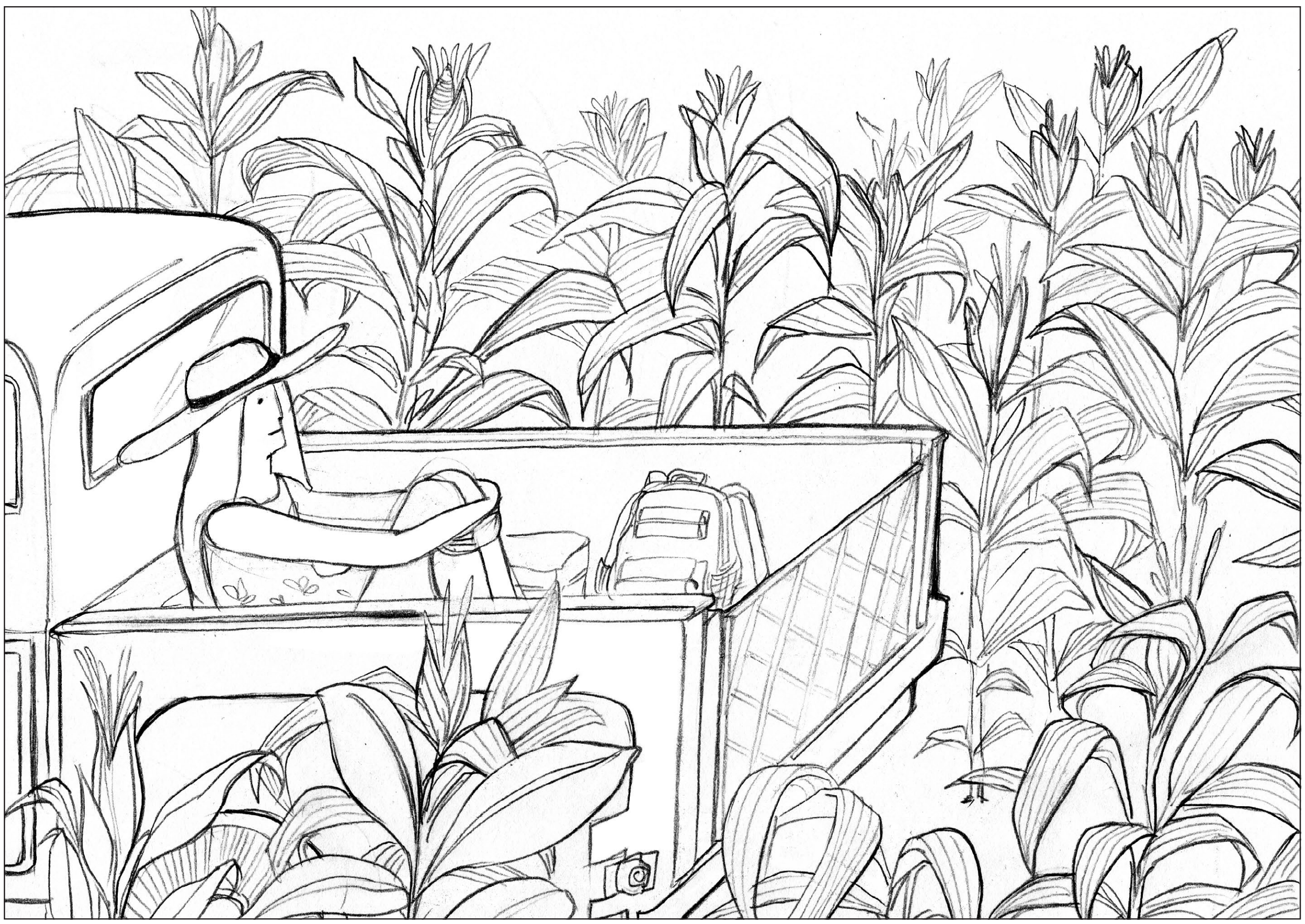

ILLUSTRATION BY JESSIE WANG

Last semester, the freshmen in 12.000 (Solving Complex Problems) embarked on a mission to feed the entire world. We didn't quite accomplish that, but we did learn a lot about food security in the face of a changing climate. As an investigative and educational follow-up field trip, our class journeyed over spring break to a place that faces a troubling heap of challenges in guaranteeing food amidst the challenges of climate change: New Mexico.

A land of chile and tumbleweeds, and the incubator for many wonderful friendships, it is a land so wholly different from anywhere on the East Coast that it might as well be a different country altogether — which was just as well, since this was supposed to be a year where we went international for the Terrascope spring break trip.

If you asked any student who went on the trip for a one-sentence summary of what we did in New Mexico, the answer would probably be along the lines of, "We talked to a lot of farmers." A LOT of farmers, all selectively chosen by our excellent trip supervisors. I lost count somewhere around Farmer #14 on Day 3, but what they said stuck with me.

The extraordinary part of the experience, I think, was that every single farmer had something quite different to say. We held respectful conversations with climate change skeptics and organic farming advocates alike, and every farmer had a thought-out reason for their methods, whether they used genetically-modified or heirloom seeds, or embraced or refused herbicides.

In the same day, we heard both "organically-farmed hay harvests often contain a high percentage of unusable weeds" as well as "organic farming reduces the use of harmful pesticides."

Given my personal interest in the use of genetically-modified crops, I was especially curious to understand why farmers are so often against them. In some, there were obvious signs of misinformation (seeds collected from GM crops are not all sterile); in others, subjectivity seeped into reason ("they don't taste as good"); but concern over the business practices of GM companies is certainly not unfounded.

In addition to exploring different cultures of farming, we explored different cultures of life with the Pueblo and the Navajo Native Americans. Tribe members welcomed us into their homes, their community meetings, and their spiritual ceremonies.

One of the revelations that struck me most was their acceptance and incorporation of Catholicism, a religion which by all accounts, including their own, was forced upon them by the colonial Spanish. And I cannot help but wonder how the elders reconcile the scientific discovery that Native Americans came over the land bridge from Asia with long-held oral traditions that their people had lived in their ancestral land since the very beginning.

As foreign as the land might be, the people were so warm and welcoming that for the most part, I felt quite at home. Between the many gracious hosts that our awesome trip advisors found, we shared meals of freshly-pulled carrots, homemade fry bread, and improvised blue corn pancakes; and at a Catholic missionary in the heart of the Navajo Nation (found through Airbnb), I got the bunk bed, summer camp experience I never had.

Despite typically starting the day at the outrageously early hour of 7 a.m. and being either out on the road or in the field till sundown, the 10-day trip was still far less tiring than an average MIT week. Breathing nature, going places, speaking with strangers — all very invigorating activities after long weeks of psets and exams and deadlines.

Speaking with people was, I think, the keystone of the trip: with others as well as with ourselves. Despite a whole semester with my Mission classmates, our communication was mostly class-related and we never really got to know each other. One spring break together, however, and already we were inseparable — our first trip reunion occurred in Next dining the night we got back to MIT. I think I may have finally found a community where I am quite comfortable — because nothing makes you more comfortable with each other than sharing a van and a playlist for a week's ride through the desert.

All that said, I don't think I'm particularly inclined to return to New Mexico. I like it when my days don't have winter-to-summer temperature gradients, when the dust is not in my hair, and when the wind and the sun are not turning my face into sandpaper. But I do think that this was one of the best trips I've ever embarked on, and certainly far more memorable than a family vacation to Miami.

We can discuss and solve problems of food security all we like here at MIT, but it is absolutely vital to speak to the farmers and the consumers themselves in order to truly know, or at least begin to truly know, how we can help them from our faraway classrooms and laboratories.

Vivian Zhong is a member of the Class of 2019.

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What does it take to run the Boston Marathon?

Three students and a Nobel Laureate share perspectives from their successful runs

By Souparno Ghosh
SPORTS EDITOR

Acclaimed writer and marathoner Haruki Murakami once said, "I've run marathons all over the world, but whenever someone asks me which is my favorite, I never hesitate to answer: the Boston Marathon, which I have run six times."

He went on to add, "Every time I run the race, the feelings of the people who created it over the years are on display for all to appreciate, and I'm enveloped in a warm glow, a sense of being back in a place I missed. It's magical."

Despite the warmth and magic, it is still a marathon — a journey of 26.2 miles that includes hilly terrain in the unpredictable New England weather.

So what does it take to run the Boston Marathon? What is it like to run from Hopkinton to Boylston through the Scream Tunnel and over Heartbreak Hill? What does it feel like to have crossed the finish line? Finally, what goes through the minds of these amazing athletes when they are running for hours on end?

The Tech spoke to Ben Eysenbach '17 (2:42:29), Chengzhen Dai '16 (3:12:37), Jenny Shen G (4:01:56), and Nobel Laureate professor Wolfgang Ketterle (2:55:25) following their successful completions of this year's Boston Marathon to get their perspectives.

Even before the start of the race, there is a certain aura about being in a sea of about 26,000 other racers.

As Shen explains, "It is pretty amazing how much prestige this marathon carries. As a student I have been living in the Boston area for a few years and it feels really special to see people from all over the world come here. Some people get to run following multiple attempts at qualifying."

"The lady on the bus [on the way to Hopkinton] next to me she was in her fifties from England and she was so excited to run her first Boston Marathon. I feel lucky to have been able to do it twice now," she said.

Even before one can hope to compete, one needs to qualify — and the Boston Marathon has some of the most stringent cutoff times. Then one needs to brave the cold to ramp up mileage leading up to Patriots' day. But for some of these runners, long runs can often often come as a reprieve.

"For me, it is an excuse to get out of campus. I like to think alone at times and going on long runs provides that opportunity. Sometimes I think of math problems, yet at other times about some book I am reading," said Eysenbach.

Dai had a somewhat different perspective: "One of my most favorite parts of running is that you come across different people. I have had wonderful conversations over the years, including with a pair of brothers during the race who also hailed from my home state of Michigan."

Eventually, all the hard work will come to fruition on the day of the marathon. In particular, it comes in handy when navigating the notorious Heartbreak Hill.

"I had done a lot of hill workouts ahead of time on much steeper hills," explained Eysenbach.

He went on to elaborate, "the challenge with Heartbreak Hill is that it comes roughly 20 miles in and that is when your body has used up all the glycogen stored in muscle cells. So when people say they have hit the proverbial wall that is what they are referring to."

"If you have not been eating along the way, your body will start using muscle cells. So to have that accompanied with an incline makes it even harder [than just the hilly terrain]," he said.

But even though there are parts of the course that are more challenging than others, there are also a lot of people cheering for the runners throughout the course.

As Shen put it, "[There are] fans at every part of the course cheering you on. A lot of families come out. These people have grown up with the marathon experience."

Perhaps no group cheers harder than the Wellesley students in what has come to be known as the 'Scream Tunnel.'

Ketterle cherished the experience: "The high pitched voices of the girls and young women send chills down your spine. They have 'Kiss Me' signs and are looking to high five you. It is a very welcome distraction in the middle of the course and it is wonderful to immerse in that [atmosphere]."

Finally, there are few sights more reassuring than seeing the finish line when one turns the final corner onto Boylston Street.

Dai, who had to battle cramps and tightness in the quads over the last eight miles said, "I fed off the energy of my friends who were cheering hard for me along the last mile. It was amazing to finish in an area I am very familiar with amongst people I am very familiar with."

Undoubtedly, running 26.2 miles is a feat to be proud of. But what does it mean to finish a marathon to someone as accomplished as a Nobel Laureate?

Ketterle weighed in: "The short answer is, it means a lot. Even if you have received something like a Nobel prize. I got that for something I did 15 or 20 years ago. I am not retiring on my laurels."

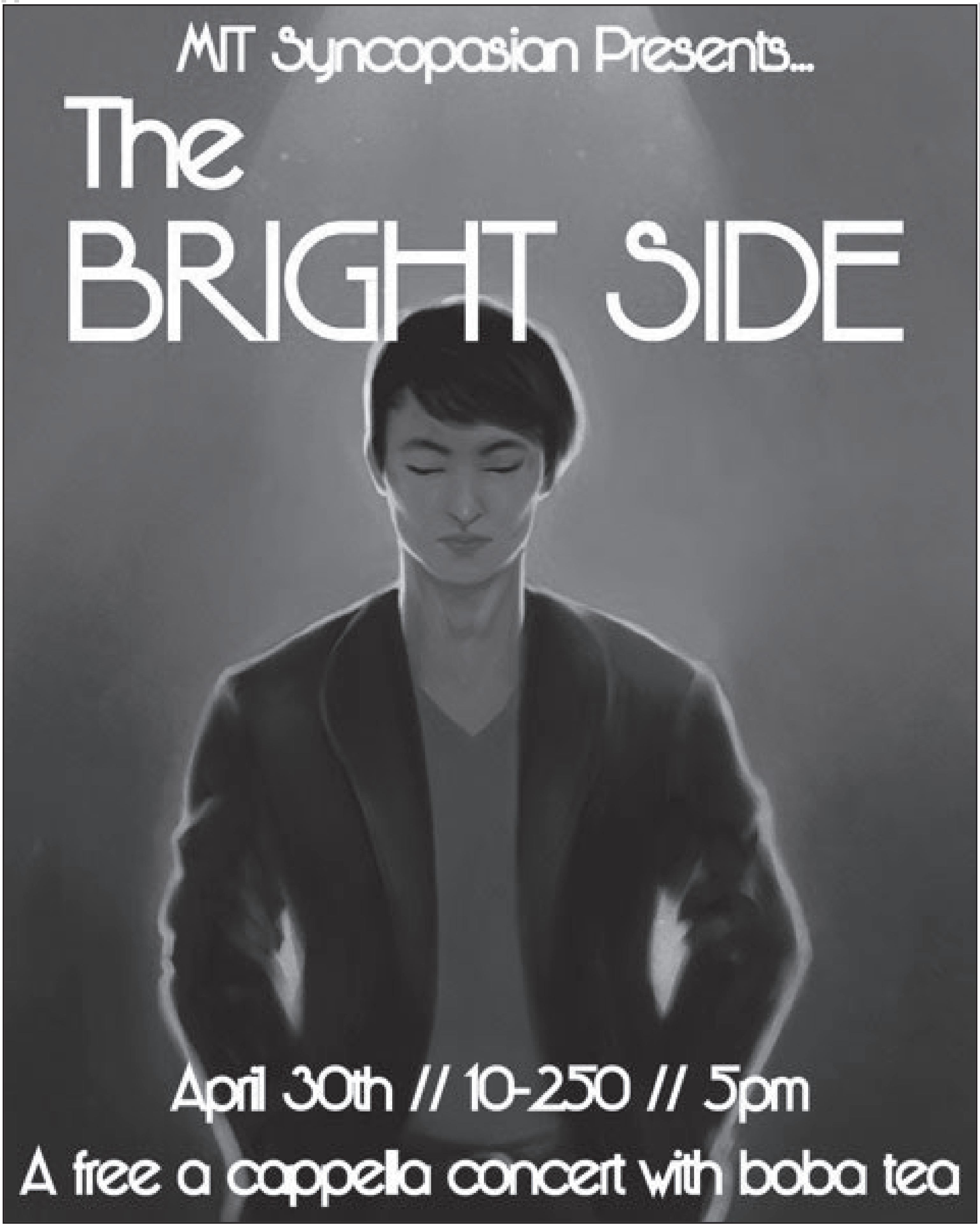
"I am a person who has goals, likes to achieve goals and gets some satisfaction from it. For example if my lab makes an interesting discovery I find it extremely satisfying."

"For me life has an intensity," he said. "You set yourself challenges. If I did not care how I perform I would not be living my life. I care how I perform. I care what I accomplish. Yes, I have got the recognition as a scientist, but I feel as a person, I am more than just a scientist. For example it means a lot to me that I got the teaching prize from the School of Science this year."

Compared to his teaching and research, Ketterle said, the "marathon is a whole different ball game."

"It is physical activity. It is about getting up in the morning and running and keeping your body in good condition. I am proud of the fact that I can come in the top five in my category or that in my fifties I was able to run faster than in my twenties. Similarly I have raised children and if they accomplish something I feel pride."

He said, "For me it is not necessary to win prizes or awards but to excel in several areas — those which are intellectually challenging as well as those that are physically challenging."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Rugby's fun side

Dawydiak '16 shares rugby's social aspects

Rugby, from Page 16

"All you have to be able to do is hold a ball and run forward," said Jaeger, "there are tons of different positions so there is a place for everyone."

The team isn't all about the game either. An important aspect of college rugby is socializing with the other teams. After each game or tournament the teams usually gather for food, drinks, and fun to blow off some steam and meet new people. "We beat on each other and then afterward go and eat together, that is one really cool thing about rugby," said Dawydiak.

Jaeger, who started playing rugby in high school, said she still loves the game now. "You don't have to be huge, you don't have to be fast. There really is a place for everyone," Jaeger said, "I think that's my favorite thing about rugby."

Celtics get first playoff win of the season

Thomas led the Celtics to a 111-103 win over the Hawks in Game 3

By Zachary Collins
SPORTS STAFF

The Boston Celtics finished 48-34 on the season landing them the 5th seed in the Eastern Conference. This gave them a first-round playoff matchup with the 4th-seeded Atlanta Hawks, and a start to the series on the road. The first two games in Atlanta were rough. The Celtics started Game 1 slow, plunging into a deficit too large to recover from. Game 2 quickly developed into a blowout riddled with atrocious play. The Celtics needed a great performance in their first home game of the series, and they gave just that.

The C's deviated from their normal starting lineup, replacing the injured Avery Bradley with Evan Turner and swapping Jared Sullinger for Jonas Jerebko. This gave them another strong ball handler and a shooter to try and bolster an offense that was anemic in the first few games. The benefits were reaped early on. The Celtics won the first quarter, outscoring the Hawks 37-20. They hit as many three point shots as they had in all of Game 2. Isaiah Thomas exploded early, finding shots both off the ball and as the dominant handler. As the quarter wound down, things got chippy between both teams. The players could sense how important this game was and often let their competitive side unleash in a flurry of hard fouls and constant barking. This intensity would not recede all game.

> **The players could sense how important this game was and often let their competitive side unleash.**

The second quarter saw back-and-forth between the two teams. The Celtics started the quarter playing its two rookies RJ Hunter and Terry Rozier. Although it's unfortunate their opportunities came as a result of injuries, the two made exceptional contributions while on the court. Terry Rozier hit some big shots for the C's and infused his energy through his defensive tenacity and work on the boards. RJ Hunter's defense was a little more shaky, but the rookie made a few good plays on the other end of the court when it counted. The Hawks would come away winning the quarter by five points, but the Celtics would hold onto a double-digit lead (57-45) after the half.

The Celtics appeared to be gaining even more momentum as the third quarter started. They forced Atlanta into some regrettable turnovers and converted on the fast break heading the other way. The lead quickly swelled to 19 before Atlanta finally woke up and commenced a spectacular run. Jeff Teague slithered his way into the paint, getting to the line and launching a few floaters that found their way through the rim. Kent Bazemore seemed to either successfully cut to the basket or drill a jump shot whenever the ball swung his way. Al Horford, Kyle Korver, and Dennis Schroder found ways to contribute as well. The Hawks tied the game with a minute left in the quarter and would have kept it that way if it hadn't been for a beautiful flip shot by Jonas Jerebko to beat the buzzer.

As the fourth quarter started, the Garden became electric. The place rocked with noise in support of the team. The beginning of the fourth was a back and forth battle. Kyle Korver drained a bunch of threes he found space for by sprinting around a myriad of screens and outrunning his assigned defender. Isaiah Thomas answered by continually finding a way to get a shot off or earning trips to the free throw line. What made the difference were some key defensive plays the Celtics made down the stretch, denying anything easy inside and coming away with many of the 50-50 balls. The extra possessions and fast break attempts were not wasted, allowing them to squeak out a large enough cushion to keep the Hawks out of it and win 111-103.

Isaiah Thomas finished the game with a career-high 42 points, and heard MVP chants all game long. His dominant play may not have been the sole reason for this win but it certainly played a large role.

The Celtics trail the Hawks 2-3 and will look to get even in Game 6 on Thursday, April 28 at TD Garden.

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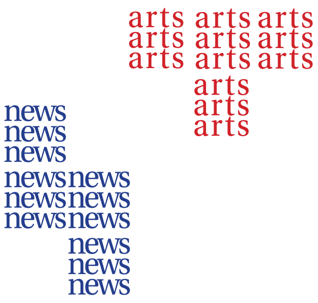

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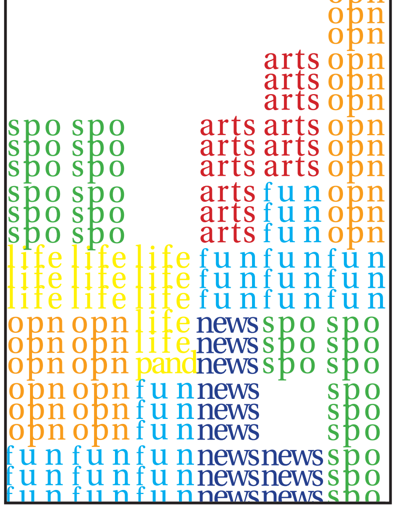

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IT'S ON

LILA JANSEN

Jasmin Joseph '18 steps up to bat during Saturday's 8-1 win over Wellesley.

Women's ultimate frisbee qualifies for regional meet

sMITe battled the elements to clinch qualification

By Margaret H. Carpenter
SPORTS STAFF

The MIT women's ultimate frisbee team, also known as sMITe, is heading into the New England Area Regionals this coming weekend after playing in the sectional qualifiers at Harvard on April 16 and 17. Although sMITe managed to secure a spot in regionals, the weather and a series of injuries posed a serious threat to their qualification hopes.

"The first day was really windy and came down to scoring upwind break points," said co-Captain Kristen Murray '16.

The severe winds on Saturday made it tough for all teams to make progress upwind, but sMITe had a particularly rough go of it and lost to Northeastern, Boston College, Harvard, and Tufts in close competitions on day one. Trying to keep their regional dream alive, sMITe returned the next day determined to advance.

"It took us some time to get back to our most competitive on Sunday," Murray commented, "but we overcame our first day of losses and numerous injuries to secure our berth to regionals."

sMITe beat Boston University twice on Sunday winning the final playoff bid for the Metro Boston division.

Regional competitions will take place this weekend in Amherst, Massachusetts, where the MIT women's team will compete against Northeastern, Tufts, Harvard, and other universities in an effort to advance to nationals. If sMITe succeeds at Amherst this weekend they could continue to compete in the National Championship.

Prom dress rugby is fierce and stylish

Annual game held for 8th time

By Margaret H. Carpenter
SPORTS STAFF

The MIT Womens Rugby team hosted the 8th annual Prom Dress Rugby Tournament this weekend, matching up against several nearby schools including Amherst, Wellesley, Boston College, and Holyoke. Although MIT had a great showing and won three of their games, Boston College outscored them to win first place.

This tournament is the last competition of the semester for the MIT team and a fun way to end the season.

President of the club Alexa Jaeger '18 said, "The Prom Dress Tournament is always great. The contrast of playing rugby, which is a pretty rough sport, and wearing prom dresses is funny and teams really enjoy coming to the event."

Many of the teams that came this year such as Wellesley and Babson have been attending the tournament for years.

The MIT team had a great season this spring thanks in part to successful recruiting in the fall. Doubling the size of their roster, this year's rookies added some real talent to the team.

Jaeger mentioned two newer players, "Noa Yoder '19 and Caralyn Cutlip '17 — this is their first season and they have been running and scoring like crazy."

Social chair Christi Dawydiak '16 also praised her new teammates saying "They're playing at a much higher level than anyone would expect from rookies."

Both Jaeger and Dawydiak mentioned that many team members never played rugby before joining the MIT team.

Rugby, Page 15

MIT gains $2.5m gift from Price '70

Gift endows director of sports medicine, available in fall 2016

By Phil Hess
DAPER STAFF

MIT's Department of Athletics, Physical Education, and Recreation (DAPER) has received a 2.5 million dollar gift that will be used to endow the department's Director of Sports Medicine position, Julie Soriero, Department Head of DAPER and the Director of Athletics, announced today. The generous donation was made by Walter Price '70 and will establish the Walter C. Price '70 Family Director of Sports Medicine at MIT.

Price, who graduated from MIT in 1970 with a degree in Electrical Engineering, was a three-time letterwinner in wrestling and was a co-captain of the 1969-70 team. He is currently the managing director of Allianz Global Investors U.S. LLC, located in San Francisco.

"Athletic activities are so important to the students for their life not only at MIT, but even after MIT," said Price. "I am pleased to support this essential element of their health and well-being as well as their experience."

"On behalf of my colleagues across the Institute who provide direct support to students, I express a genuine 'thank you!' to Walter and his family," remarked Tom Cronan, MIT's Director of Sports Medicine. "This gift will make it possible for us to extend our particular service, and assist a broader subset of the campus' physically active student population."

Mr. Price's transformational gift will allow MIT to add an additional sports medicine professional to the DAPER staff that will improve the unit's ability to preserve the experience of injured students as well as provide timely access to sports medicine healthcare; not only for varsity student-athletes but also for students participating in club sports as well. This position will be available to work with MIT students at the beginning of the 2016-17 school year.

Mark set in long jump

Okonkwo '18 leapt 18 feet, 11.25 inches to set new record

By Max Berkowitz
DAPER STAFF

Nneoma Okonkwo '18 set the MIT record in the long jump on Saturday afternoon at the Sean Collier Invitational with a best leap of 18 feet, 11.25 inches (5.77m).

Okonkwo's performance leaves her sixth in the country currently as she prepares for championship season. Her mark was followed by Haley Strouf '18 who jumped a personal best distance of 17 feet, 6.25 inches (5.34m) for fifth place.

Also in the field, the throwers won three events highlighted by a pair of victories by Jackie Vahey '17 in the discus and hammer. Vahey's discus throw went 137 feet, 0.25 inches (41.76m), while her hammer throw traveled 158 feet, 9.5 inches (48.39m). Ariela Slutsky '18 was the second-best thrower for MIT, finishing second in the discus (132 feet, or 40.23m), and third in both the shot put (38 feet, 7.25 inches or 11.76m) and the hammer (139 feet, 4.75 inches or 42.48m).

The Engineers also claimed both vertical jumps as Natalie Alper '17 won the high jump with a best leap of 5 feet, 4.25 inches (1.63m), while classmate Jennifer Tylock '17 took the pole vault title for the second straight meet, clearing 11-feet, 2.5-inches (3.42m). Isabella Stuopis '16 rounded out the list of winners of MIT as she came in first place in the shot put with a throw of 41 feet, 4.75 inches (12.61m).

On the track, Kendra Knittel '17 ran season bests in both the 100-meter dash (12.68s) and the 200-meter dash (25.34s). Bailee Margolis '19 had the top placement for MIT on the track as she took third in the 10,000-meter run in a time of 40:09.83.

At the Larry Ellis Invitational on Friday, Maryann Gong '18 took fifth in the 5,000-meter run in a time of 16:43.96, a mark that stands third best in the nation. Along with Gong in the run was Nicole Zeinstra '16, who finished 32nd in 17:54.52 and Mary Eccles '18, who took 36th in a time of 17:58.06. Bailey Tregoning '19 had the 64th fastest time in the 800-meter elite run with a time of 2:15.81.